

## IUBMB Enzyme Nomenclature

**EC 2.7.5.6**

**Transferred entry:** now [EC 5.4.2.7](#) phosphopentomutase

[EC 2.7.5.6 created 1972, deleted 1984]



---

[Return to EC 2.7.5 home page](#)

[Return to EC 2.7 home page](#)

[Return to EC 2 home page](#)

[Return to Enzymes home page](#)

[Return to IUBMB Biochemical Nomenclature home page](#)

## IUBMB Enzyme Nomenclature

**EC 5.4.2.7**

**Common name:** phosphopentomutase

**Reaction:**  $\alpha$ -D-ribose 1-phosphate = D-ribose 5-phosphate

**Other name(s):** phosphodeoxyribomutase; deoxyribose phosphomutase; deoxyribomutase; phosphoribomutase;  $\alpha$ -D-glucose-1,6-bisphosphate:deoxy-D-ribose-1-phosphate phosphotransferase; D-ribose 1,5-phosphomutase

**Systematic name:**  $\alpha$ -D-ribose 1,5-phosphomutase

**Comments:** Also converts 2-deoxy- $\alpha$ -D-ribose 1-phosphate into 2-deoxy-D-ribose 5-phosphate.  $\alpha$ -D-Ribose 1,5-bisphosphate, 2-deoxy- $\alpha$ -D-ribose 1,5-bisphosphate, or  $\alpha$ -D-glucose 1,6-bisphosphate can act as cofactor. Formerly EC 2.7.5.6.

**Links to other databases:** [BRENDA](#), [EXPASY](#), [GTD](#), [KEGG](#), [ERGO](#), CAS registry number: 9026-77-1

**References:**

1. Hammen-Jepersen, K. and Munch-Petersen, A. Phosphodeoxyribomutase from *Escherichia coli*. Purification and some properties. *Eur. J. Biochem.* 17 (1970) 397-407. [Medline UI: [71082298](#)]
2. Kammen, H.O. and Koo, R. Phosphopentomutases. I. Identification of two activities in rabbit tissues. *J. Biol. Chem.* 244 (1969) 4888-4893. [Medline UI: [70004749](#)]
3. Ray, W.J., Jr. and Peck, E.J., Jr. Phosphomutases, in Boyer, P.D. (Ed.), *The Enzymes*, 3rd edn., vol. 6, Academic Press, New York, 1972, pp. 407-477.

[EC 5.4.2.7 created 1972 as EC 2.7.5.6, transferred 1984 to EC 5.4.2.7]

---

Return to [EC 5.4.2 home page](#)

Return to [EC 5.4 home page](#)

Return to [EC 5 home page](#)

Return to [Enzymes home page](#)

Return to [IUBMB Biochemical Nomenclature home page](#)